

In the Claims

Please amend the claims as follows.

Sub c1
1. (Twice Amended) A bottle sterilizing system comprising:

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a plurality of bottles, each bottle having an interior and exterior surface, a body portion and an opening, said opening having a width smaller than the width of the body portion that prevents introduction of particles from a source located exteriorly of the bottle from impinging directly on at least a portion of the interior surface of each bottle;

a source of a liquid sterilizing agent;

means for introducing said sterilizing agent onto the interior surface of said bottle from a location exterior of said bottle in the form of discrete atomized liquid particles by contacting the bottle surface with said particles to form at least a thin liquid film thereon, present in sufficient concentration to substantially eliminate microbial contamination on the surface of said bottle after being in contact with said liquid film for a sufficient period of time; and

means for substantially removing said sterilizing agent from said bottle surface after said bottle is sterilized as desired.

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16. (Twice Amended) A bottle sterilization process comprising:

providing at least one bottle having an interior and exterior surface, a body portion and an opening, said opening having a width smaller than the width of the body portion that prevents introduction of particles from a source located exteriorly of the bottle from impinging directly on at least a portion of the interior surface of each bottle;

introducing a sterilizing agent in the form of discrete atomized liquid particles from a location exterior of said bottle onto the interior bottle surface;

contacting the bottle surface with said particles whereby said particles form a thin liquid film on the entire interior bottle surface;

B2 maintaining the sterilizing agent on the surface of said bottle for a fixed period of time sufficient to reduce to a desired level the amount of active microorganisms on said interior surface;

removing said sterilizing agent from substantially all the interior and exterior surfaces after said surfaces are sterilized as desired; and

maintaining the bottle in an inverted position throughout the entire sterilization process.

Sub c3 29. (Twice Amended) A bottle sterilization apparatus comprising:

B3 at least one bottle having an interior and exterior surface, a body portion and an opening, said opening having a width smaller than the width of the body portion that prevents introduction of particles from a source located exteriorly of the bottle from impinging directly on at least a portion of the interior surface of said bottle;

a conveyor for moving said bottle in an inverted position;

a source of a liquid sterilizing agent in the form of atomized liquid particles;

63 at least one nozzle disposed under said bottle for introducing said sterilizing agent from a location exterior of said bottle onto the surface of the bottle in the form of discrete atomized liquid particles by contacting the bottle surface with said particles to form at least a thin liquid film thereon, present in sufficient concentration to substantially eliminate microbial contamination on the surfaces of said bottle in contact with said liquid film; and

a rinsing device for substantially removing said sterilizing agent from said bottle surfaces after said bottle is sterilized as desired.